FIRST CHOICE WORLDWIDE
TOOLS, SERVICE DEVICES, BRAKE FLUIDS
To become a global market leader, you need excellent customer relationships, built on sustainable performance. With our hydraulic clutch actuation systems, we are proud to have accomplished this. As an expert in brake and clutch hydraulics and delivering German state-of-the-art engineering, we are a preferred development partner to the international automotive industry. To repair shops, we offer the same exacting standards in the form of high-quality tools and equipment for first-class vehicle service. Make the automakers’ first choice your choice too and increase your customer satisfaction with our spare parts.

**IMpulsE FillinG aNd BleEdinG DeviCe**
All standard clutch and brake systems including ABS, EDS, ESP and SBC systems can easily and safely be filled, flushed and bled by just one person. A pulsating fluid flow reliably eliminates air bubbles in the hydraulic system, while the automatic self-bleeding feature ensures bubble-free discharge of the brake fluid. An automatic cut-out function prevents air from entering the hydraulic system. The electro-hydraulic suction apparatus enables complete evacuation of the compensating reservoir. A special leak test allows for the detection of leaks even at low pressures.

Filling pressure continuously adjustable from 0 - 3.5 bar. Wheeled. Suitable for 5- to 20-litre drums of brake fluid. See W0300

**Fill / BleEd aDaPtErS**
We offer a broad range of fill and bleed adapters to facilitate filling and bleeding of brake and clutch systems. They are compatible with almost all fluid reservoirs in the vehicle.

**Universal Adapter**
Thread 45x7 pitch/1”
For almost all European vehicles See W1024U

**Universal Adapter**
Thread 45x7 pitch/1” as W1024U, with rotating elbow See W1054U

**Connecting Piece**
For individually manufactured filler caps See W1047

**FilliNg hOse**
For bleed valves for the filling and bleeding of hydraulic brake or clutch systems See W1045

**TEST CONNECTORS**
Connectors facilitate handling when checking the varying pressures within a hydraulic brake system. Optimally complementing our brake pressure tester W0080E, our test connectors match all types of vehicle.

**TEST CONNECTOR**
With 3 connections each
Connecting thread M 12 x 1
Fixing hole diameter D = 9 mm
See W0089
Connecting thread M 14 x 1,5
Fixing hole diameter D = 9 mm
See W0095

**TEST CONNECTOR**
With 2 connections each
Connecting thread M 12 x 1
Fixing hole diameter D = 8,5 mm
See W0088

**ASSEMBLY PASTES**
These high-performance lubricants with their outstanding creeping and lubricating behaviour are indispensable in the assembly and disassembly of brake fluid resistant brake and clutch cylinders.

**ASSEMBLY PASTE**
4-6 g polyester pouch See W0119

**TEST Connector**
With 3 connections each
Connecting thread M 12 x 1
Fixing hole diameter D = 9 mm
See W0089
Connecting thread M 14 x 1,5
Fixing hole diameter D = 9 mm
See W0095

**ACCESSORIES**
Our portfolio of fill and bleed adapters and test connectors is rounded off by a range of practical accessories and tools to facilitate the maintenance of hydraulic brake systems in vehicles.

**BleEd bOtTle**
To bleed or replace the brake fluid, the catch bottle is connected to the bleed valves via a flexible silicone tube. The mechanic can instantly see whether the brake fluid flow is bubble-free and check the released volume against a scale.

- W1072 for W0300
  Volume: 1100 ml
- W1014 for W0100
  Without scala
  Volume: 1000 ml

**Assembly Pin**
The ideal aid for various types of work on brake hydraulic systems. Flattened and blunt, the assembly pin helps avoid damage. See IBMN001
BRake Fluids

specifications

dot 4: SAE J1704, FMVSS § 571.116, ISO 4925 standards in the relevant categories

dot 4+: SAE J1704 (Low Viscosity), FMVSS § 571.116, ISO 4925 (Class 6) standards in the relevant categories

dot 5.1: SAE J1704, FMVSS § 571.116, ISO 4925 (Class 5-1) standards in the relevant categories

since brake fluid is hygroscopic, i.e. water is absorbed over time, we recommend changing the brake fluid regularly. Only the timely change ensures the full performance of the braking system in all driving situations.

Brake Fluids

suitable for all hydraulic brake systems based on glycol ethers and polyglycol technology but not with products based on mineral and silicone oils.

technical data

<table>
<thead>
<tr>
<th>Dry boiling point</th>
<th>Wet boiling point</th>
<th>Viscosity at -40 °C [cSt]</th>
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<tr>
<td>≥ [°C]</td>
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<tr>
<td>DOT 4</td>
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<td>155</td>
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<tr>
<td>DOT 4+</td>
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<td>DOT 5.1</td>
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Product Overview

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